

Product Datasheet

CIDEA Antibody (4B9) - Azide and BSA Free H00001149-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00001149-M01

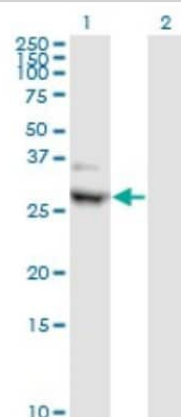
CIDEA Antibody (4B9) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4B9
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	1149
Gene Symbol	CIDEA
Species	Human
Specificity/Sensitivity	CIDEA - cell death-inducing DFFA-like effector a
Immunogen	CIDEA (AAH31896, 1 a.a. ~ 253 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MRGDRASGGPGNHNGSWAREGPRLGPSWKRLWSPRGGPNRPAEPSRPLT FMGSQTKRVLFPLMHPARPFVSNHDRSSRRGVMASSLQELISKTLDALVIAT GLVTLVLEEDGTVVDTEEFFQTLGDNTHFMILEKGQKWMPGSQHVPTCSPPKR SGIARVTFDLYRLNPKDFIGCLNVKATMYEMYSVSYDIRCTGLKGLLRSLLRFLS YSAQVTGQFLIYLGTYMLRVLDDKEERPSLRSQAKGRFTCG
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunoprecipitation
Application Notes	Antibody reactivity against Recombinant Protein with GST tag on ELISA and WB. GST tag alone is used as a negative control. Use in Immunohistochemistry reported in scientific literature (PMID: 30089732).

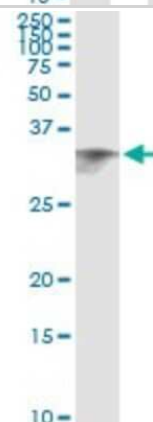


Images

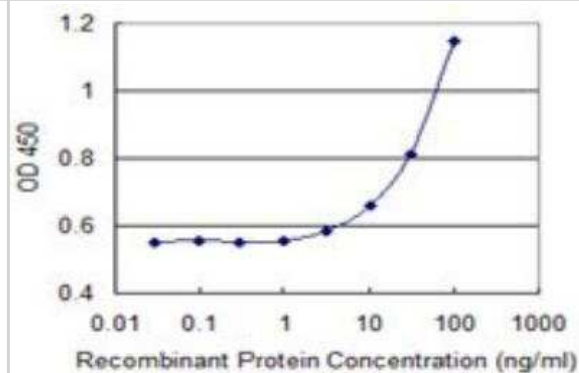
Western Blot: CIDEA Antibody (4B9) [H00001149-M01] - Analysis of CIDEA expression in transfected 293T cell line by CIDEA monoclonal antibody (M01), clone 4B9. Lane 1: CIDEA transfected lysate(28.3 KDa). Lane 2: Non-transfected lysate.



Immunoprecipitation: CIDEA Antibody (4B9) [H00001149-M01] - Analysis of CIDEA transfected lysate using anti-CIDEA monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with CIDEA MaxPab rabbit polyclonal antibody.



ELISA: CIDEA Antibody (4B9) [H00001149-M01] - Detection limit for recombinant GST tagged CIDEA is 1 ng/ml as a capture antibody.



Publications

Yusuke A, Kazutaka U, Seitaro N et al. Beiging of perivascular adipose tissue regulates its inflammation and vascular remodeling. *Nat Commun.* 2022-09-07 [PMID: 36071032]

Finlin BS, Memetimin H, Zhu B et al. Pioglitazone does not synergize with mirabegron to increase beige fat or further improve glucose metabolism *JCI insight* 2021-02-11 [PMID: 33571166] (IF/IHC, Human)

Finlin BS, Memetimin H, Confides AL et al. Human adipose beiging in response to cold and mirabegron. *JCI Insight* 2018-08-09 [PMID: 30089732] (IF/IHC, Human)

Details:

This citation used the Alexa Fluor 488 version of this antibody.

Ito M, Nagasawa M, Omae N et al. Differential regulation of CIDEA and CIDEA expression by insulin via Akt1/2- and JNK2-dependent pathways in human adipocytes. *J Lipid Res.* 2011-06-02 [PMID: 21636835]

Wang-Johanning F, Rycak K, Plummer JB et al. Immunotherapeutic Potential of Anti-Human Endogenous Retrovirus-K Envelope Protein Antibodies in Targeting Breast Tumors. *J Natl Cancer Inst.* 2012-01-12 [PMID: 22247020]

Pulinilkunnil T, He H, Kong D et al. Adrenergic regulation of AMP-activated protein kinase in brown adipose tissue in vivo. *J Biol Chem.* 2011-03-18 [PMID: 21209093]

Details:

WB: GAPDH Loading Control (IMG-3073). Mouse interscapular brown adipose cells, Fig 3A.

Xue B, Pulinilkunnil T, Murano I et al. Neuronal Protein Tyrosine Phosphatase 1B Deficiency Results in Inhibition of Hypothalamic AMPK Isoform-Specific Activation of AMPK in Peripheral Tissues. *Mol Cell Biol*;29(16):4563-4573. 2009-01-01 [PMID: 19528236]

Ito M, Nagasawa M, Hara T et al. Differential roles of CIDEA and CIDEA in insulin-induced anti-apoptosis and lipid droplet formation in human adipocytes. *J Lipid Res*;51(7):1676-84. 2010-07-01 [PMID: 20154362]

Puri V et al. Cidea is associated with lipid droplets and insulin sensitivity in humans. *Proc Natl Acad Sci U S A*;105(22):7833-8. 2008-06-03 [PMID: 18509062]





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Products Related to H00001149-M01

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP1-76951PEP	CIDEA Antibody Blocking Peptide

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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